



ATTORNEY DOCKET NO.: 0492611-0532 (MIT 9851)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Kohane et al. Examiner:  
Serial No.: 10/727,032 Art Unit: 1615  
Filing Date: December 2, 2003  
Title: Prolonged Suppression of Electrical Activity in Excitable Tissues

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:


**TRANSMITTAL LETTER**

Enclosed are the following documents:

1. Form PTO-1449 (2 pages);
2. Information Disclosure Statement (6 pages);
3. Cited Art (29); and
4. Return Postcard

If any additional fees are required to be paid or if any overpayment has been made, please charge same to Deposit Account No. 03-1721.

Respectfully submitted,

  
C. Hunter Baker, M.D., Ph.D.  
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Dated: 4/9/04



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**STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant requests consideration of this Information Disclosure Statement.

**Type of Statement**

The present Information Disclosure Statement is:

- ☒ An *original* Information Disclosure Statement; or  
☐ A *supplemental* Information Disclosure Statement.

<b>Certificate of Mailing</b>	
I certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
4/9/04 Date	 Signature
Lisa A. Walsh Typed or Printed Name of person signing certificate	

Compliance with 37 CFR § 1.97

The present Information Disclosure Statement is being filed:

- ☒ Pursuant to 37 CFR § 1.97(b); no fee or certification is required:
  - ☐ Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
  - ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
  - ☒ Before the mailing of a first Office action on the merits; or
  - ☐ Before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.
- ☐ Pursuant to 37 CFR § 1.97(c) after the dates listed above but before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application; Applicant hereby *either*:
  - ☐ Certifies that *either*:
    - ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
    - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the

knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.; or

☐ Includes herewith the fee set forth in § 1.17(p).

☐ Pursuant to 37 CFR § 1.97(d), after the mailing date of any final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application; Applicant hereby *both*:

☐ Certifies that *either*:

☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.; and

☐ Includes herewith the fee set forth in § 1.17(p).

Content of the Information Disclosure Statement

Applicant hereby makes of record in the above-identified application the reference(s) listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

Applicant includes copies of references as indicated below:

☒ A copy of each cited reference not indicated with an asterisk is included;

☐ Copies of references indicated with an asterisk on the attached form PTO-1449 are not included pursuant to 37 CFR § 1.98(d) because they were previously provided to the United States Patent Office in an Information Disclosure Statement that complies with 37 CFR § 1.98(a)-(c) and was submitted in the following patent application that is relied upon in the present case for an earlier effective filing date under 35 USC § 120:

Serial Number	Filing Date	Status

☐ Copies of English translations of one or more non-English references are included.

Applicant hereby makes the following additional information of record in the above-identified application:

Applicant certifies that the Information Disclosure Statement *either*:

☐ Does not contain non-English language citations;

☐ Does contain non-English language citations, of which the following is a concise

explanation:

[ ] Includes one or more translations of a non-English citation.

Remarks

The submission of this Information Disclosure Statement should not be construed as a representation that a search has been made.

The submission of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b) .

The submission of this Information Disclosure Statement shall not be construed as a representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.


It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited patent(s) and publication(s) has (have) been fully considered by the Patent and Trademark Office during the examination of this application; and
3. The citations for the patent(s) and publication(s) be printed on any patent which issues from this application.

Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited reference(s).

Respectfully submitted,

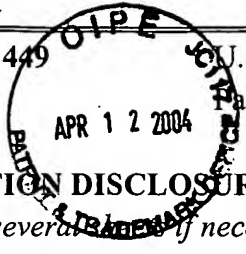
Dated: 4/9/04

  
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<b>Form PTO-1449</b> (REV. 8-83)  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket: 0492611-0532 (MIT 9851)		In re Application No. 10/727,032	
				Applicant: Kohane, et al..			
				Filing Date: December 2, 2003		Group: 1615	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass		
	6,326,020	Kohane et al	December 4, 2001	424	426		
	5,985,309	Edwards et al.	November 16, 1999	424	426		
<b>U.S. PATENT APPLICATIONS</b>							
Examiner's Initials:	Publication No:	Applicant:	Publication Date:	Group:	Art Unit:		
.	2002/0150626	Kohane et al.	October 17, 2002	424	493		
	2002/0150621	Kohane et al.	October 17, 2002	424	486		
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner's Initials	Document No.	Country	Date	Translation			
				Yes		No	
	WO 96/09814	PCT	04 April 1996				
<b>OTHER DOCUMENTS</b>							
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Cavalheiro, et al., "Intracerebral Cholinomimetics Produce Seizure-Related Brain Damage in Rats", <i>Brit. J. Pharmacol.</i> <b>79</b> : 284P, 1983.						
	Chronopoulos, et al., "Phenobarbital Modifies Seizure-Related Brain Injury in the Developing Brain" <i>Ann. Neurol.</i> <b>36</b> : 425-433, 1994.						
	Cloyd, et al., "Antiepileptic Drug Pharmacokinetics and Interactions: Impact on Treatment of Epilepsy" <i>Pharmacotherapy</i> , <b>20</b> : 139S-151S, 2000.						
	Collins, R.C., "Anticonvulsant Effects of Muscimol", <i>Neurology</i> , <b>30</b> : 575-581, 1980.						
	Cotton, et al., "Receptor-Mediated Transport of DNA into Eukaryotic Cells", <i>Methods Enzym.</i> <b>217</b> : 618-644 1993.						
	Eder, et al., "Local Perfusion of Diazepam Attenuates Interictal and Ictal Events in the Bicuculline Model of Epilepsy in Rats", <i>Epilepsia</i> , <b>38</b> (5): 516-521, 1997.						
	Eldridge, et al., "Biodegradable Microspheres as a Vaccine Delivery System", <i>Molecular Immunology</i> , <b>28</b> (3): 287-294, 1991.						
	French, et al., "Antiepileptic Drug Interactions", <i>Epilepsia</i> , <b>41</b> (8): S30-S36, 2000.						
	Graber, et al., "Tetrodotoxin Prevents Posttraumatic Epileptogenesis in Rats", <i>Ann. Neurol.</i> <b>46</b> : 234-242, 1999.						
	Hauser, et al., "The Epidemiology of Epilepsy in Rochester, Minnesota, 1935 Through 1967, <i>Epilepsia</i> , <b>16</b> : 1-66, 1975.						





**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Applicant: Kohane, et al..

Filing Date:  
December 2, 2003

Group:  
1615

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|--|---|
|  | Hauser, "Status Epilepticus: Epidemiologic Considerations" <i>Neurology</i> , <b>40</b> (2): 9-13, 1990.  |
|  | Holmes, et al., "Consequences of Neonatal Seizures in the Rat: Morphological and Behavioral Effects", <i>Ann. Neurol.</i> <b>44</b> : 845-857, 1998.  |
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|  | Isokawa, et al., "NMDA Receptor-Mediated Excitability in Dendritically Deformed Dentate Granule Cells in Pilocarpine-Treated Rats", <i>Neurosci. Lett.</i> <b>129</b> : 69-73, 1991.                      |
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|  | Kubek, et al., "Prolonged Seizure Suppression by a Single Implantable Polymeric-TRH Microdisk Preparation", <i>Brain Res.</i> <b>809</b> : 189-197, 1998.   |
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|  | Mulligan, "The Basic Science of Gene Therapy", <i>Science</i> , <b>260</b> : 926-932, 1993.   |
|  | Perucca, et al., "Harnessing the Clinical Potential of Antiepileptic Drug Therapy", <i>CNS Drugs</i> , <b>15</b> : 609-622, 2001.   |
|  | Stein, et al., "An Automated Drug Delivery System for Focal Epilepsy", <i>Epilepsy Res.</i> <b>39</b> : 103-114, 2000.  |
|  | Swann, et al., "Major System Toxicities and Side Effects of Anticonvulsants" <i>J. Clin. Psychiatry</i> , <b>62</b> : 16-21, 2001.  |
|  | Tamargo, et al., "The Intracerebral Administration of Phenytoin Using Controlled-Release Polymers Reduces Experimental Seizures in Rats" <i>Epilepsy Res.</i> <b>48</b> : 145-155, 2002.                  |
|  | Turski, et al., "Review: Cholinergic Mechanisms and Epileptogenesis. The Seizures Induced by Pilocarpine: A Novel Experimental Model of Intractable Epilepsy", <i>Synapse</i> , <b>3</b> : 154-171, 1989. |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.